

Comparisons of Job Characteristics

Focus Occupation: [Inspectors, Testers, Sorters, Samplers, and Weighers \(51-9061\)](#)

Associated Occupation: [Industrial Engineers \(17-2112\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation: Industrial Engineers (17-2112)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Engineering and Technology	5.7	18.0	4.2	<<	Extensive education and/or training may be required
Production and Processing	6.0	17.4	11.9	<<	Extensive education and/or training may be required
Mathematics	9.2	15.6	8.0	<<	Extensive education and/or training may be required
Mechanical	6.8	15.6	5.4	<<	Extensive education and/or training may be required
Design	5.2	14.8	4.3	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation: Industrial Engineers (17-2112)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reading Comprehension	10.7	14.8	9.2	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	12.8	7.4	<<	Extensive development of skills in this area may be required
Writing	9.2	12.8	7.6	<<	Extensive development of skills in this area may be required
Monitoring	9.9	12.2	8.0	<<	Extensive development of skills in this area may be required

Mathematics	6.2	10.3	5.1	<<	Extensive development of skills in this area may be required
Systems Analysis	6.5	9.9	3.8	<<	Extensive development of skills in this area may be required
Systems Evaluation	6.4	9.5	4.2	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	7.2	2.5	<<	Extensive development of skills in this area may be required
Management of Financial Resources	3.3	6.0	1.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 89			
Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) Associated Occupation: Industrial Engineers (17-2112)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	14.6	10.1	<<	Extensive improvement in abilities may be required
Written Expression	9.8	14.1	8.1	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	13.6	9.2	<<	Extensive improvement in abilities may be required
Inductive Reasoning	10.2	12.8	9.0	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	11.8	8.4	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	10.7	8.4	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	10.5	4.7	<<	Extensive improvement in abilities may be required
Visualization	7.5	10.3	7.0	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	8.5	5.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 75	
Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) Associated Occupation: Industrial Engineers (17-2112)			
Work Activities		Exclusivity of Activity	
Communicate technical information		4	

Follow manufacturing methods or techniques	73
Follow statistical process control procedures	73
Perform safety inspections in industrial, manufacturing or repair setting	32
Prepare safety reports	60
Prepare technical reports or related documentation	22
Read blueprints	10
Read production layouts	66
Read technical drawings	7
Record test results, test procedures, or inspection data	48
Understand engineering data or reports	48
Use hazardous materials information	35
Use long or short term production planning techniques	74
Use quality assurance techniques	61
Use technical information in manufacturing or industrial activities	67

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 70

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)
Associated Occupation: Industrial Engineers (17-2112)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1
Electrical measuring and testing equipment	7
Indicating and recording instruments	2
Industry specific software	1
Laboratory environmental conditioning equipment	24
Length and thickness and distance measuring instruments	2
Light and wave generating and measuring equipment	4
Metals and metallurgy and structural materials testing instruments	15
Pressure measuring and control instruments	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.